
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Fri Jun 08 19:25:03 EDT 2007

Reviewer Comments:

<210> 13

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<221> primer_bind

<223> reverse primer specific for TCR BV3 used in real-time

PCR analysis

<400> 13

ggtgctggcg gactccagaa t

21

The above <213> Artificial Sequence is in an incorrect position; all numeric identifiers must be directly under each other. Do not use Tab keys. Same type of error in Sequences 20, 43, 50, 53, 68.

<400> 168

tacttctgtg ccagcagttc cctcgctact gctgaagctt tctttggaca aggc 54 ??

??

??

??

Please delete the ?'s at the end of the submitted file.

*********	******	

Validated By CRFValidator v 1.0.2

Application No: 10612468 Version No: 2.0

Input Set:

Output Set:

Started: 2007-06-07 09:18:35.574 **Finished:** 2007-06-07 09:18:39.094

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 520 ms

Total Warnings: 116
Total Errors: 118

No. of SeqIDs Defined: 168

Actual SeqID Count: 168

Err	or code	Error Description
M	213	Artificial or Unknown found in <213> in SEQ ID (1)
E	224	<220>, $<223>$ section required as $<213>$ has Artificial sequence or Unknown in SEQID (1)
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E	224	<220>, $<223>$ section required as $<213>$ has Artificial sequence or Unknown in SEQID (9)
W	213	Artificial or Unknown found in <213> in SEQ ID (10)
E	224	$<\!220\!>$, $<\!223\!>$ section required as $<\!213\!>$ has Artificial sequence or Unknown in SEQID (10)
W	213	Artificial or Unknown found in <213> in SEQ ID (11)
E	224	$<\!220\!>$, $<\!223\!>$ section required as $<\!213\!>$ has Artificial sequence or Unknown in SEQID (11)
W	213	Artificial or Unknown found in <213> in SEQ ID (12)
E	224	$<\!220\!>$, $<\!223\!>$ section required as $<\!213\!>$ has Artificial sequence or Unknown in SEQID (12)
W	213	Artificial or Unknown found in <213> in SEQ ID (13)
Е	224	$<\!220\!>$, $<\!223\!>$ section required as $<\!213\!>$ has Artificial sequence or Unknown in SEQID (13)

Input Set:

Output Set:

Started: 2007-06-07 09:18:35.574

Finished: 2007-06-07 09:18:39.094

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 520 ms

Total Warnings: 116
Total Errors: 118
No. of SeqIDs Defined: 168

Actual SeqID Count: 168

Unknown in SEQID (22)

Err	or code	Error Description
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Input Set:

Output Set:

Started: 2007-06-07 09:18:35.574 **Finished:** 2007-06-07 09:18:39.094

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 520 ms

Total Warnings: 116
Total Errors: 118
No. of SeqIDs Defined: 168

Actual SeqID Count: 168

Err	or code	Error Description
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E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (24)
W	213	Artificial or Unknown found in <213> in SEQ ID (25) This error has occured more than 20 times, will not be displayed
Е	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (25) This error has occured more than 20 times, will not be displayed
E	249	Order Sequence Error <211> -> <213>; Expected Mandatory Tag: <212> in SEQID (146)
E	250	Structural Validation Error; Sequence listing may not be indexable

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SEQUENCE LISTING
<110> Zhang, Jingwu Z.
 Ho, Walter Kowk Keung
 Zhang, Dongqing
 Sun, Wei
<120> T Cell Receptor CDR3 Sequence and Methods for
 Detecting and Treating Rheumatoid Arthritis
<130> D6622
<140> US 10/612,468
<141> 2003-07-02
<160> 168
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<223> part of the complementary determining region-3 (CDR3)
in the V(16 family (BV16 gene) of T cell receptors
 (TCR) in patients with rheumatoid arthritis (RA)
<400> 1
agccaagctg acgggaccca t
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<210> 2
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<213> Artificial Sequence
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 (CDR3) in the V(14\ \text{family (BV14 gene)}) of TCR in
patients with RA
<400> 2
agttccgggg gcagtctgtt c
                                                 21
<210> 3
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<213> Homo sapiens
<220>
<221> Peptide
<223> conserved amino acid sequence derived from CDR3 of
TCR beta-chain BV16 in patients with RA
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<400> 3

Ser Gln Ala Asp Gly Thr His

<210> 4

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<213> Homo sapiens
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TCR beta-chain BV14 in patients with RA
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Ser Ser Gly Gly Ser Leu Phe
<210> 5
<211> 4
<212> PRT
<213> Homo sapiens
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<221> Peptide
<223> amino acid sequence motif derived from CDR3 of TCR
beta-chain BV16 in patients with RA
<400> 5
Ser Trp Gly Gly
<210> 6
<211> 113
<212> PRT
<213> Homo sapiens
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<223> amino acid sequence of human (beta-chain variable
region V(14 of T cell receptors
<400> 6
Met Gly Pro Gln Leu Leu Gly Tyr Val Val Leu Cys Leu Leu Gly
                                     10
Ala Gly Pro Leu Glu Ala Gln Val Thr Gln Asn Pro Arg Tyr Leu
                 20
                                     25
Ile Thr Val Thr Gly Lys Lys Leu Thr Val Thr Cys Ser Gln Asn
Met Asn His Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Leu
                 50
                                     55
Gly Leu Arg Gln Ile Tyr Tyr Ser Met Asn Val Glu Val Thr Asp
                 65
Lys Gly Asp Val Pro Glu Gly Tyr Lys Val Ser Arg Lys Glu Lys
                                     85
Arg Asn Phe Pro Leu Ile Leu Glu Ser Pro Ser Pro Asn Gln Thr
                 95
                                    100
Ser Leu Tyr Phe Cys Ala Ser Ser
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110

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<211> 96
<212> PRT
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<221> Domain
<223> amino acid sequence of human (beta-chain variable
region V(16 of T cell receptors
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                 5
                                     10
Lys Gly Gln Thr Val Thr Leu Arg Cys Asp Pro Ile Ser Gly His
                 20
                                     25
Asp Asn Leu Tyr Trp Tyr Arg Arg Val Met Gly Lys Glu Ile Lys
                                      40
Phe Leu Leu His Phe Val Lys Glu Ser Lys Gln Asp Glu Ser Gly
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                                     55
Met Pro Asn Asn Arg Phe Leu Ala Glu Arg Thr Gly Gly Thr Tyr
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Ser Thr Leu Lys Val Gln Pro Ala Glu Leu Glu Asp Ser Gly Val
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Tyr Phe Cys Ala Ser Ser
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aagcacctga tcacagcaac t
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PCR analysis
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<210> 7

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PCR analysis
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<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<221> primer_bind
<223> reverse primer specific for TCR BV2 used in real-time
PCR analysis
<400> 11
                                              21
aggatgggca ctggtcactg t
<210> 12
<211> 24
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PCR analysis
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                                              24
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<221> primer_bind
<223> reverse primer specific for TCR BV3 used in real-time
PCR analysis
<400> 13
ggtgctggcg gactccagaa t
                                                21
<210> 14
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<213> Artificial Sequence
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<223> forward primer specific for TCR BV4 used in real-time
PCR analysis
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PCR analysis
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                                               21
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<211> 21
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<210> 17
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<223> reverse primer specific for TCR BV5 used in real-time PCR analysis $\,$

<400> 17

agcaccaagg cgctcacatt ca 22

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<223> forward primer specific for TCR BV6 used in real-time PCR analysis $\,$

<400> 18

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<211> 25
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PCR analysis
<400> 20
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                                              25
<210> 21
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<212> DNA
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<221> primer_bind
<223> reverse primer specific for TCR BV7 used in real-time
PCR analysis
<400> 21
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tggctgcagg gcgtgtaggt g
<210> 22
<211> 21
<212> DNA
<213> Artificial Sequence
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<221> primer_bind
<223> forward primer specific for TCR BV8 used in real-time
PCR analysis
<400> 22
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                                                21
<210> 23
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PCR analysis
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                                                21
<210> 24
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<212> DNA
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<223> forward primer specific for TCR BV9 used in real-time
PCR analysis
<400> 24
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                                                21
<210> 25
<211> 22
<212> DNA
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PCR analysis
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PCR analysis
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                                                22
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PCR analysis
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<220>

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PCR analysis
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ttatagggac aggaaagaag atc
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PCR analysis
<400> 29
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atgtgagggc ctggcagact c
<210> 30
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<223> forward primer specific for TCR BV12 used in real-time
PCR analysis
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caagacacaa gatcacagag aca
                                                   23
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<211> 21
<212> DNA
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PCR analysis
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<210> 32
<211> 23
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PCR analysis
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                                                   23
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<211> 21
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PCR analysis
<400> 33
cacagatgtc tgggagggag c
                                                   21
<210> 34
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<221> primer_bind
<223> forward primer specific for TCR BV14 used in real-time
PCR analysis
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                                                    23
<210> 35
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PCR analysis
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<212> DNA

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<210> 37
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PCR analysis
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PCR analysis
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                                                    22
<210> 39
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PCR analysis
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PCR analysis
<400> 40
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22

gtececaaag tacetgttea ga

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<223> reverse primer specific for TCR BV17 used in real-time
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PCR analysis
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                                                    21
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PCR analysis
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tgecgaatet cetegeaeta e
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PCR analysis
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gaccctggtg cagcctgtg
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PCR analysis
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cccagatata agattacaga gaaa
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<400> 49
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PCR analysis
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gtcctccagc tttgtggacc g
<210> 52
<211> 21
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PCR analysis
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aagagggaaa cagccactct g
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<223> reverse primer specific for TCR BV23 used in real-
time PCR analysis
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cagetecaag gageteatgt t
                                                    21
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<221> primer_bind
<223> forward primer specific for TCR BV24 used in real-time
PCR analysis
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                                      24
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<221> primer_bind
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PCR analysis
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caggcctggt gagcggatgt c
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<223> forward primer specific for TCR BV25 used in real-time
PCR analysis
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<223> forward primer specific for TCR BC used in real-time PCR
analysis
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cagegeeett gtgttgatg
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<223> reverse primer specific for TCR BC used in real-time PCR
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                                                    20
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<212> DNA
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<223> BC primer used for run-off reactions
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cgacctcggg tgggaaca
                                                    18
<210> 61
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<212> DNA
<213> Artificial Sequence
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<221> primer_bind
<223> FAM (expand)-labeled BC primer used for run-off reactions
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cacagegace tegggtggg
                                                    19
<210> 62
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<212> DNA
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<223> FAM (expand)-labeled BJ primer used for run-off reactions
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actgtgagtc tggtgccttg t
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<221> primer_bind

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acaacggtta acttggtccc cgaa
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                                                    19
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                                                   24
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cctggcccga agaactgctc a
                                                   21
<210> 69
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